

INTERNATIONAL SEARCH REPORT

In ☐ national Application No
PCT/IL2004/000905

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02P7/628

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 791 341 A (BROWN ET AL) 13 December 1988 (1988-12-13) column 3, line 59 - column 19, line 24; figures 1-5	1-38
X	----- US 2003/146722 A1 (GRIEPENTROG GERD ET AL) 7 August 2003 (2003-08-07) paragraph '0020! - paragraph '0042!; figures 1-8	1-38
A	----- DE 100 44 574 A1 (LEBER, DIETER) 15 March 2001 (2001-03-15) column 2, line 64 - column 4, line 23; figures 4,5	1-38
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

2 February 2005

Date of mailing of the international search report

11/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Davis, A

INTERNATIONAL SEARCH REPORT

In International Application No
PCT/IL2004/000905

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 38 30 196 A1 (LOEWE PUMPENFABRIK GMBH, 2120 LUENEBURG, DE) 15 March 1990 (1990-03-15) column 1, line 1 - line 45; figures 1-5 -----	1-38
A	EP 0 512 372 A2 (ALLEN-BRADLEY COMPANY, INC) 11 November 1992 (1992-11-11) column 3, line 26 - column 16, line 32; figures 1-9 -----	1-38

INTERNATIONAL SEARCH REPORT

Information on patent family members

In International Application No

PCT/IL2004/000905

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4791341	A	13-12-1988	AU 2214688 A BR 8900187 A CA 1290389 C MX 165156 B	20-07-1989 12-09-1989 08-10-1991 29-10-1992
US 2003146722	A1	07-08-2003	BR 0016704 A CA 2395500 A1 WO 0148908 A1 DE 50003864 D1 EP 1240712 A1	24-09-2002 05-07-2001 05-07-2001 30-10-2003 18-09-2002
DE 10044574	A1	15-03-2001	NONE	
DE 3830196	A1	15-03-1990	NONE	
EP 0512372	A2	11-11-1992	US 5187419 A BR 9201450 A CA 2061960 A1 DE 69223677 D1 DE 69223677 T2 JP 5184175 A MX 9202044 A1	16-02-1993 15-12-1992 07-11-1992 05-02-1998 30-07-1998 23-07-1993 01-11-1992